

# ALUMINIUM DOWNPIPE SYSTEMS

TECHNICAL DATASHEET



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## TECHNICAL DATA SHEET



### OVERVIEW:

A range of traditionally designed, socketed aluminium downpipes. Connections between pipes and fittings are made with loose cast sockets, which are available with or without fixing ears. A range of fixing brackets are also available to enable either a flush fit or a particular projection.

### DESCRIPTION & SIZES:

#### REGENCY - Downpipes with Cast Collars

This range of circular, square and rectangular downpipes has a Regency style diecast socket, which is factory fitted to each extruded length. The socket detail has double rings and is available with or without fixing ears. A wide variety of extension brackets and clips can be made to order.

##### Regency Circular Range:

Lengths: 3.0m / 2.5m / 2.0m / 1.0m / 0.5m  
Diameters: 63mm / 76mm / 100mm /  
(150mm available on request)

##### Regency Square / Rectangular Range:

Lengths: 3.0m / 2.5m / 2.0m / 1.0m / 0.5m  
Sizes: 75 x 75mm / 100 x 75mm / 100 x 100mm

#### MODERN - Extruded Downpipes with Swaged Joints

The Modern range of circular, square and rectangular extruded aluminium pipes incorporate a swaged jointing system with separate wall fixing brackets. These brackets can be either as standard or a special design to accommodate stand-off requirements.

##### Modern Circular Range:

Lengths: 3.0m / 2.5m / 2.0m / 1.0m / 0.5m  
Diameters: 63mm / 75mm / 100mm / 150mm

##### Modern Square / Rectangular Range:

Lengths: 3.0m / 2.5m / 2.0m / 1.0m / 0.5m  
Sizes: 75 x 75mm / 100 x 75mm / 100 x 100mm / 150 x 150mm

#### ISOBAR - Vandal Resistant Extruded Downpipes

Isobar downpipes feature a flush appearance at the joint and are ideal for buildings which are vulnerable to vandalism. The system negates the expensive installation of brick recesses to protect downpipes.

##### Isobar Circular Pipe Range:

Lengths: 3.0m / 2.5m / 2.0m / 1.0m / 0.5m  
Diameters: 76mm / 100mm

##### Isobar Square / Rectangular Pipe Range:

Lengths: 3.0m\* / 2.5m\* / 2.0m / 1.0m / 0.5m  
(\* not available for 100 x 100mm square pipe)  
Sizes: 75 x 75mm / 100 x 75mm / 100 x 100mm

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Manufacturing in Britain

## PIPE JOINTING:

All rainwater pipe sockets are of a light drive fit. It is recommended that a light bead of silicone is applied to the internal aperture inside the socket prior to connection, in order to provide a permanent flexible seal and prevent any leakage from capillary action.

## FINISH:

Mill finish or polyester powder coated.

## COLOUR:

Polyester powder coated colour to a standard RAL, BS 4800 or BS 381 C range by Akzo Nobel, applied by MAC - a Service First, ISO 9001 approved applicator. Applied to standards indicated in BS 6496.

## MATERIAL:

Cast aluminium collars are made from commercial LM2 grades of aluminium alloy to BS EN 1559:1997, BS EN 1676:1997 and BS EN 1706:1998, nominal thickness 4mm.

Extruded aluminium rainwater pipes are extruded from alloy 6063 T4 T5 T6 to BS EN 775-9-2001. Aluminium sheet is manufactured from aluminium alloy SIC H4 to BS 485-1:1994. The pressed components are produced from sheet manufactured from SIC H4 BS EN 485-1:1994. Aluminium castings are produced from aluminium alloy to BS EN 1706:1998.

## DURABILITY:

MAC Aluminium Downpipe Systems have a low maintenance life in excess of 40 years in rural and suburban conditions, and in excess of 25 years in industrial and marine conditions.

## COMPATIBILITY:

Direct aluminium contact with dissimilar metals or with materials containing lime or cement should be avoided. The use of aluminium in conjunction with copper roofs, cladding or flashings should also be avoided. Please contact MAC Technical Services for advice on using these materials in heavily polluted or marine environments.

## FIRE RATING:

Non-combustible to BS 476, Part 4: 1970 (1984). Melting temperature for aluminium is approximately 660°C.

## MAINTENANCE:

Routine inspections are recommended with particular attention to the following areas:

- Regularly clean out rainwater heads and gutters and ensure that downpipes are clear at all times;
- Check that joints and fixings are secure at least twice each year (preferably at the beginning of Autumn and again at the end of Winter);
- Where necessary, brush down unpainted surfaces lightly in order to inspect;
- Never rest ladders against the gutters, even on well-fixed installations;
- Regularly clean polyester coated surfaces by washing down with a warm detergent solution, and maintain paintwork in good condition. Do not clean with caustic or abrasive materials. In aggressive atmospheres such as marine environments and industrial areas BS 6496:1984 requires this cleaning to be carried out at up to three month intervals to maintain optimum appearance and durability;
- Please note that mill finish goods will develop a natural grey aluminium oxide coating, which forms a hard protective layer, preventing additional oxidization.

## ACCESSORIES:

MAC's Aluminium Downpipe Systems are available with a range of complimentary accessories, including pipe bends, projection offsets, Y-junctions, brackets and collars. For further details please contact MAC Customer Services or refer to our dedicated Rainwater Catalogue.



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